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COUNTY BOROUGH OF HALIFAX

HEALTH DEPARTMENT

ANNUAL REPORT
ON THE HEALTH OF THE BOROUGH
FOR THE YEAR 1943

GEORGE C. F. ROE.

M.R.C.P., L.R.C.S., L.M., D.P.H., D.P.M.

MEDICAL OFFICER OF HEALTH

HEALTH COMMITTEE.

(as on December 31st 1943)

Mayor - Councillor T. Greenwood, J.P.

ALDERMAN L. CHAMBERS, Chairman.
COUNCILLOR A. GELDER, Vice-Chairman.

ALDERMAN E. MIDGLEY.	ALDERMAN A. MUFF.
COUNCILLOR G.H. BUTTERS.	COUNCILLOR H.P. POWNEY.
" J. LATHAM.	" H. RHODES.
" J. NICHOLL.	" E. RILEY.
" G.H. NORMANTON.	" W. RILEY.
" S. HIRST.	" G. WADSWORTH.
	" T. STOTT.

SUB-COMMITTEES

Appointed by the Health Committee.

Health Services Sub-Committee.

THE CHAIRMAN.	COUNCILLOR STOTT.
VICE-CHAIRMAN.	" RHODES.
COUNCILLOR HIRST.	" E. RILEY.

Hospitals Sub-Committee.

THE CHAIRMAN.	COUNCILLOR LATHAM.
VICE-CHAIRMAN.	" NORMANTON.
ALDERMAN MIDGLEY.	" POWNEY.
" MUFF.	" W. RILEY.
COUNCILLOR BUTTERS.	" WADSWORTH.

Accounts Sub-Committee.

THE CHAIRMAN.	COUNCILLOR NORMANTON.
VICE-CHAIRMAN.	" RHODES.
	" NICHOLL.

Joint Recovery Sub-Committee.

The Members of the Health Committee who shall serve in rotation.

Maternity and Child Welfare Committee.

The Health Committee with the following additional Members:-

MRS. E.M. LIGHTOWLER.	MRS. E. WHITAKER. MRS. L. LUMB.
MRS. J. MOORE.	MRS. E.E. ROTHERA. MISS E.L. WHITLEY.
MRS. J. STIRK.	

Committee for the Care of the Mentally Defective.

ALDERMAN L. CHAMBERS. (Chairman)	COUNCILLOR HODGSON.
	" ARGUILE.
COUNCILLOR BUTTERS. (Vice-Chairman)	MR. E. HARRISON.
	MRS. B. DRACUP.
ALDERMAN M. LIGHTOWLER.	MRS. A. SMITH.
" E. SMITH.	MRS. E. TOWNSEND.
" J. ODDY.	

Welfare of the Blind Sub-Committee.

THE CHAIRMAN.	COUNCILLOR POWNEY.
VICE-CHAIRMAN.	" W. RILEY.
ALDERMAN MIDGLEY.	

STAFF OF THE HEALTH DEPARTMENT.

(as on December 31st 1943)

MEDICAL OFFICER OF HEALTH.

GEORGE C.F. ROE., M.R.C.P., L.R.C.S., L.M., D.P.H., D.P.M.,

ASSISTANT MEDICAL OFFICERS OF HEALTH

WILFRID SMITH, M.Sc., M.B., B.Ch., B.A.O., Clinical Tuberculosis Officer and Resident Medical Officer, Sanatorium.
MEDICAL OFFICER TO MATERNITY AND CHILD WELFARE CENTRE, Vacant.
F.W. WATERWORTH., M.B., Ch.B., D.P.H., Assistant School Medical Officer.
S. CARTER, M.D., B.Hy., D.P.H., Resident Medical Officer, Isolation Hospital. (On Active Service)
R.C. WOODCOCK, M.B., Ch.B., Acting Resident Medical Officer, Isolation Hospital.

MEDICAL STAFF - THE HALIFAX GENERAL HOSPITAL.

H.I. DEITCH, M.S., (Lond.) F.R.C.S., Medical Superintendent.
J.N.I. EMBLIN, M.B., Ch.B., F.R.C.S., Deputy Medical Supt.
M. GOLDIN, M.B., Ch.B., Junior Medical Officer.
O.D. BAUGH, M.B., Ch.B., " " "
R.F. O'SULLIVAN, M.B., Ch.B., " " "
D.J. PEACOCK, M.B., Ch.B., " " "

PART TIME - MEDICAL OFFICERS.

H.V. PHELON, M.R.C.P., Venereal Diseases Clinic.
" " Pathologist and Bacteriologist.
F.W. GOYDER, F.R.C.S., (Eng.) Orthopaedic Surgeon.
D.W. HEYNEMANN, M.B., Ch.B., Assistant School Medical Officer.
W. MACADAM, M.A., M.D., F.R.C.P., Consulting Physician.
E.R. FLINT, F.R.C.S., (Eng.) Consulting Surgeon.
W.O. LODGE, F.R.C.S., Consulting Ophthalmic Surgeon.
R.W. GREATOREX, M.B., Ch.B., Consulting Ophthalmic Surgeon.
B.L. JEAFFRESON, M.D., F.R.C.S., L.R.C.P., M.C.O.G., Consulting Obstetrician.
Dr. CHESTER-WILLIAMS, D.M.R.E., Radium.
L. GLICK, M.D., M.R.C.P., Consulting Physician.

PUBLIC VACCINATORS.

A. GARVIE, M.D.,
J. MORRISON, M.B.,
R. DAVIDSON, M.B., Ch.B.,
H.W. MORCK, M.R.C.S., L.R.C.P.,
A. GLENN, M.B., Ch.B.,
P.MILNES, L.R.C.P., L.R.C.S.,
C.S. OGILVY, L.R.C.P., L.R.C.S.,

DISTRICT MEDICAL OFFICERS.

A. GARVIE, M.D.,
J. MORRISON, M.B.,
R. DAVIDSON, M.B., Ch.B.,
W.H. CRAVEN, B.Sc., M.B., Ch.B., D.T.N.
V.C. MEYER, M.B., Ch.B.,
T.J.S. O'NEILL, M.B., Ch.B.,
C.S. OGILVY, L.R.C.P., L.R.C.S.,

STAFF OF THE HEALTH DEPARTMENT - CONTINUED.

INSPECTORS.

J.W. BEAUMONT,	Chief Sanitary Inspector.
E. WILSON,	District Sanitary Inspector.
H. LEAPER,	" " "
A. PEARSON,	" " "
R. COOPE,	" " "
G.A. WOODHEAD,	" " "
H. MARGERISON,	Senior Sanitary Inspector and Housing Inspector.
F. BURTON,	Housing Inspector.
J. FLANAGAN,	Meat Inspector.

CLERICAL STAFF.

C. CARLTON,	Chief Clerk.
H. WRIGHT,	Clerk.
H. CARLTON,	" - (On Active Service)
N. BRADLEY,	"
G. WALSHAW,	" - " " "
T.K. BOOTHMAN,	" - " " "
C. MANDEFIELD,	" - (Died on Active Service)
P. GARSIDE,	" - (Temporary)
A. DOBSON,	" - "
R.V. BROWN,	" - "

MISS E. CLARKSON, Vaccination Officer, Visitor for Mental Deficiency Acts, Boarding-Out Order (Children under 5) and Children and Young Persons Act (Part V)

MATERNITY AND CHILD WELFARE.

MISS E.R. ORAM,	Senior Health Visitor.
MISS M. MOORE,	Health Visitor.
MISS S.E. BRIGGS,	do
MISS M.O. FORRESTER,	do
MISS N. DINGSDALE,	do
MISS M. DYSON,	do
MRS. E. MALTON,	Clerk. (Temporary)

THE HALIFAX GENERAL HOSPITAL.

A. WHEELDON,	Steward.
L.R. LORIMER,	Assistant Steward.
MISS N. SPILMAN,	Matron.
H.V. WILKINSON,	Admission Officer.

CLERKS.

E.H. DIXON, R. HODSON, MRS. L. FARRAR,
MISS H. EYRE, MISS E.M. KEETLEY, MISS H. BALDAM.

TUBERCULOSIS VISITOR - M.H. MUIR.
MATRON, ISOLATION HOSPITAL - R.E. STUBBS.
MATRON, HALIFAX SANATORIUM - M.W. DAVIDSON.
REMOVAL OFFICER - W.P. SHARP.
PUBLIC ANALYST - R. MALLINDER, B.Sc., F.I.C.,

COUNTY BOROUGH OF HALIFAX.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1943

INTRODUCTION

To The Chairman and Members of the Health Committee.

Mr. Chairman, Madam and Gentlemen,

I have the honour to present my sixteenth Annual Report being the Seventy-first of the series, dealing with the work of the Public Health Department.

On account of the war the report has been much curtailed.

The incidence of all the infectious diseases was very low during the period under review. Special notes in respect of the tuberculosis allowance scheme, venereal diseases, diphtheria immunisation and measures taken to deal with head lice appear in the body of the report. Once again I wish to point out that the incidence of ill health under war conditions is difficult to assess. It would be unwise to assume that the public health shows no deterioration. The worry, strain, anxiety, the disruption of so many homes and many other evil factors inseparable from the conditions of total war are bound to have some detrimental effect on the peoples health. We are doing everything possible, in the difficult circumstances facing us, to keep the unfavourable results as low as possible.

With regard to post war health environmental conditions I hope that progress will be made in respect of smoke abatement. I would like to see a standard of air purity comparable to that we have already for water purity.

I take this opportunity of thanking all the members of the Health Department Staff for the zeal, energy and loyalty which they have, one and all, displayed during the year.

It is once again my privilege to express to the Chairman and Members of the Health Committee my appreciation of the sympathy and interest they have displayed in the work of the Public Health Department.

I am,

Mr. Chairman, Madam and Gentlemen,

Your obedient Servant,

George C.F. Roe.

Medical Officer of Health.

Health Department,

STATISTICS

Latitude	53°	44'	North.
Longitude	1°	50'	West.

Mean height above sea level, feet	780
Area in acres	14,081
Population (Census 1931) ... ... (Males 44,600. Females 53,515)	98,115
Population (Midyear, 1943)	89,760
Density of population per acre	6.3
Number of inhabited houses (1931 Census) ...	28,488
Average number of persons to each occupied house.	3.40
Rateable Value, 1942-43 (1st April, 1943) ...	£622,061
Sum represented by a penny rate, 1942-43 (Net Product) ...	£2,538

Summary of Vital Statistics.

Birthrate per 1,000 population	17.1
Deathrate per 1,000 population	15.4
Infantile deathrate per 1,000 births ...	50
Respiratory deathrate	1.5
Phthisis deathrate	.62
Deathrate from other forms of Tuberculosis	.13
Tuberculosis deathrate (all forms)	.75
Deathrate from Cancer	2.2

SUMMARY OF DEATHS.

(Based on the Registrar General's "Short List" of causes of death)

Cause of Death	Number
Enteric Fever	-
Smallpox	-
Measles	-
Scarlet Fever	-
Whooping Cough	4
Diphtheria	4
Influenza	28
Encephalitis Lethargica ...	-
Cerebro-Spinal Fever	2
Tuberculosis of respiratory system	56
Other Tuberculosis Diseases ...	12
Cancer, Malignant Disease ...	205
Diabetes	20
Cerebral Haemorrhage, etc. ...	179
Heart Disease	374
Other Circulatory Diseases ...	59
Bronchitis	77
Pneumonia (all forms)	55
Other Respiratory Diseases ...	10
Ulcer of Stomach or Duodenum	7
Diarrhoea, etc. under 2 years	8
Appendicitis	7
Other Digestive Diseases ...	29
Acute and Chronic Nephritis ...	44
Puerperal Sepsis	1
Other Maternal Causes	2
Congenital Debility and Malformation, Premature Birth	45
Suicide	7
Other deaths from violence ...	43
Other defined Diseases ...	109
	1,387

	Year	Birthrate per 1,000 Total Population	Annual Deathrate per 1,000 Population								Rate per 1,000 Births	
			ALL CAUSES	Enteric Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under two years)	TOTAL DEATHS (under one year)
England and Wales	1943	16.5	12.1	0.00	0.00	0.02	0.00	0.03	0.03	0.37	5.3	49
126 County Boroughs and Great Towns including London	1943	18.6	14.2	0.00	0.00	0.02	0.00	0.03	0.04	0.36	7.9	58
HALIFAX	1935	12.0	14.6	0.00	0.00	0.00	0.02	0.01	0.16	0.00	7.6	70
	1936	12.3	15.2	0.00	0.00	0.07	0.00	0.04	0.12	0.18	5.8	68
	1937	12.8	14.6	0.00	0.00	0.01	0.00	0.02	0.05	0.49	0.8	63
	1938	13.4	14.1	0.00	0.00	0.02	0.00	0.00	0.06	0.05	2.1	57
	1939	13.8	15.3	0.00	0.00	0.01	0.02	0.03	0.05	0.17	1.4	60
	1940	13.0	15.6	0.01	0.00	0.00	0.00	0.02	0.15	0.23	4.0	45
	1941	13.3	15.7	0.00	0.00	0.04	0.00	0.03	0.12	0.10	21.3	65
	1942	15.8	14.6	0.00	0.00	0.03	0.00	0.00	0.05	0.05	6.9	56
	1943	17.1	15.4	0.00	0.00	0.00	0.00	0.04	0.04	0.31	5.2	50

Provisional figures. The rates have been calculated on a population estimated to the middle of 1931. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the group of towns.

GENERAL PROVISION OF HEALTH SERVICES.

(Arranged as required by the Ministry of Health)

HOSPITALS provided or subsidised by the Halifax Corporation:-

TUBERCULOSIS - The Sanatorium at Shelf, Near Halifax, provides accommodation for 50 adults (25 early and 25 other cases) and for 12 children. It is provided by the Halifax Corporation and receives cases from other districts, including Lancashire County.

The Health Committee has a call on 5 beds at the Bermerside Residential School for children in the pre-tubercular stage, or children suffering from non-pulmonary tuberculosis of a non-infectious character.

MATERNITY HOSPITAL - Maternity cases are provided at the Halifax General Hospital and the Royal Halifax Infirmary. There is an increasing demand for Maternity Hospital beds and some extension of maternity accommodation at the Halifax General Hospital is a priority need which will have to be dealt with as soon as circumstances permit.
The Corporation makes a grant of £300 per annum towards the Infirmary Maternity Home.

HOSPITAL FOR CHILDREN - By arrangement with the Education Committee operations for Tonsils and Adenoids are carried out at the Halifax General Hospital.
There is a ward at the Halifax General Hospital for the treatment of sick or crippled children sent there by the Maternity and Child Welfare Committee, also an arrangement by that Committee with the Royal Halifax Infirmary for the treatment of cases of Ophthalmia Neonatorum.
An Orthopaedic Service has been set up at the Halifax General Hospital for the treatment of cases sent by the Maternity and Child Welfare and Education Committees.

FEVER HOSPITAL - The Corporation provides the Isolation Hospital which admits cases of Scarlet Fever, Diphtheria, Enteric and other fevers from Halifax, and from areas of neighbouring local authorities. Accommodation for 96 cases.

SMALLPOX - The Corporation maintains the Smallpox Hospital at Belle Vue, Mount Tabor, which has accommodation for 26 patients. This hospital is subsidised by the Brighouse Joint Hospital Board and the Sowerby Bridge Urban District Council.

VENEREAL DISEASES - The Corporation has an arrangement with the Royal Halifax Infirmary for both out-patient and in-patient treatment.

HOSPITAL FACILITIES.

Hospital and Situation	Purpose	Total Beds	Authority	Medical Staff	Consultants
Isolation Hospital, Northowram Hall.	Fevers	96	Halifax Health Committee	1 Resident Medical Officer	as required
Halifax Sanatorium, Shelf.	Tuberculosis	62	do	1 Resident Medical Officer. The Senior Assistant M.O.H. and T.B. Officer	as required
The Halifax General Hospital	General Surgical Medical Children & Maternity	450	do	1 Medical Superintendent Resident. 5 Assistant Medical Officers Resident.	2 Physicians 1 Orthopaedic Surgeon 1 Bacteriologist 1 Surgeon 2 Ophthalmic Surgeons
Smallpox Hospital, Mount Tabor.	Smallpox	26	do	M.O.H. or Assistant M.O.H. (Non-Resident)	as required
Royal Halifax Infirmary.	General Surgical Medical & Maternity	230	Voluntary Committee		

General Nursing - Under the Local Government Act, 1929, the Halifax General Hospital, was, on April 1st, 1931, transferred to the Local Authority and is administered by the Health Committee as a General Hospital.

AMBULANCE FACILITIES.

(a) For Infectious Cases -
Two "Austin" 18 H.P. Ambulances, worked from the Isolation Hospital, Northowram Hall, serves Halifax and the other districts from which cases are admitted to the Hospital.

(b) For Non-Infectious and Accident Cases -
(1) The Corporation's Motor Ambulance Service, worked by the Passenger Transport Department. (Tel.5894)
1 "Humber" 25 H.P. and 2 "Austin" 20 H.P.

(2) The Health Committee's Ambulance at the Halifac General Hospital (Tel.4259) "Austin" 20 H.P.

(3) The Ambulance Service of the St. John Ambulance Brigade and British Red Cross Society. "Austin" 20 H.P.
Transport Officer - Mr. L. Chambers (Tel.3831)

CLINICS

(Excluding School Clinics which appear in the Annual Report of the School Medical Service).

Name of Clinic	Purpose	Where held	Times	
			Days	Hours
Tuberculosis Dispensary.	Tuberculosis	8, Clare Road	Monday Thursday	2 p.m. to 4 p.m.
Maternity and Child Welfare.	Ultra Violet Light & Massage	66,68, Northgate	Monday	Morning
	Babies	do.	do.	Afternoon
	Children under 5	Queen's Road	Tuesday	Morning & Afternoon
	Babies	66,68, Northgate	Wednesday	do. do.
	Babies	Ovenden	do.	Morning
	Ultra Violet Light & Massage	66,68, Northgate	Thursday	do.
	Ante & Post Natal	do.	do.	Afternoon
	Babies	do.	Friday	All day
	Ultra Violet Light & Massage	do.	Saturday	Morning
X Halifax District Nursing Association.	Ante-Natal	Kirby Leas, Savile Road	First & Third Thursdays in each month	Evening
The Halifax General Hospital.	Ante-Natal	The Halifax General Hospital	Tuesday	Morning & Afternoon
	Psychiatric	do.	Friday	2-30 to 5 p.m.
X Royal Halifax Infirmary.	Ante-Natal	Royal Halifax Infirmary	Wednesday Thursday	Afternoon & Evening Afternoon
	Venereal Diseases	do.	Tuesdays Women & Children	3-30 p.m. to 4-30 p.m. and 6 p.m. to 8 p.m.
			Thursdays (Men)	6 p.m. to 8 p.m.
			Auxiliary Centre for Men Daily	10 a.m. to 12 noon and 6 p.m. to 8 p.m.
			Sunday	10 a.m. to 12 noon.

X Subsidised by the Corporation.

NURSING IN THE HOME - This is provided by:-

Halifax District Nursing Association.
Illingworth Nursing Association.
Luddenden Nursing Association.

DIPHTHERIA IMMUNISATION.

During the year the Medical Officer of Health gave several public lectures dealing with this subject. Immunisation is carried out at the Maternity and Child Welfare Clinic, the School Clinic and by General Practitioners in the town. Immunising material is supplied free to Halifax doctors. The incidence of young people immunised has increased but there is still plenty of room for improvement in this direction. It is very important that all pre-school children should be immunised against Diphtheria.

BACTERIOLOGICAL EXAMINATIONS -

The arrangements are as follows:-
Bacteriological examinations are carried out at the Royal Halifax Infirmary, where Swabs, etc, may be sent direct.

Tuberculosis. Sputum and other material is examined only at the Tuberculosis Clinic, 8 Clare Road, Halifax, and should not be sent to the Royal Halifax Infirmary. Sputum must be sent in special outfits which will be supplied on the application of the practitioner.

Examinations. The following Table shows the number of examinations carried out either at the Royal Halifax Infirmary, or the Tuberculosis Clinic, during the year, for the Medical Practitioners of the town, the Clinic, the Isolation Hospital, or the Health Department.

Sputum for Tubercle	213
Diphtheria Swabs	1415
Agglutination Test, Widal, & Faeces	----
Others (Fluids, etc)	22
Total	1650

In addition to the above, routine samples of milk for bacteriological and biological examination are submitted to other laboratories.

C A N C E R .

A Radium Clinic, in charge of Dr. Chester Williams, has now been established at the Royal Halifax Infirmary, towards the cost of which the Health Committee of the Halifax Corporation pay the sum of £50 per annum. Patients from Halifax are now admitted through this clinic for radium treatment at the Royal Infirmary, Bradford.

TABLE showing Deaths at Age Periods during the year:-

Age Period	Males	Females	Total
Under 45	4	8	12
45 - 64	37	53	90
65 and over	48	55	103
	89	116	205

DEATHRATE per 1,000 population during the past 10 years:-

Year	Deathrate	Year	Deathrate
1934	1.8	1939	1.9
1935	2.0	1940	1.9
1936	1.8	1941	2.5
1937	1.8	1942	2.3
1938	1.9	1943	2.2

ISOLATION HOSPITAL.

The Isolation Hospital is situated at Northowram, on a site of 32 acres, at a height of 800 feet above sea level.

The accommodation is as follows:-

Scarlet Fever,	2 blocks of 26 beds each	-	52
Diphtheria,	1 block of 26 beds	-	26
Observation,	1 cubicle block	-	12
Scarlet Fever Discharge Block		-	6
			96

The number of Cases admitted during 1943 were as follows:-

Disease	Borough Cases	Non-Resident Cases	Total
Scarlet Fever	297	165	462
Diphtheria	131	31	162
Measles	21	11	32
Erysipelas	1	2	3
Chicken Pox	5	2	7
Mumps	1	3	4
Rubella	2	5	7
Whooping Cough	24	2	26
Other Diseases	6	1	7
	488	222	710

Ambulance Facilities for Infectious Cases.

Two Ambulances are garaged at the Isolation Hospital for the removal of infectious cases to the Hospital.
Both are "Austin" 18 H.P.

Disinfection.

A Steam Disinfector and a Formalin Disinfector are part of the equipment at the Isolation Hospital.

During the year the following articles were disinfected:-

Patient' articles	6160
Hospital beddings and clothing	4887
Sanatorium beddings and clothing	92
Sundry articles	53

271 "Stovings" were carried out during the year.

Prevalence of, and Control over, Infectious Diseases.

Enteric Fever.

No case of this disease was notified during the year.

No death occurred.

The following Table shows the incidence of Typhoid Fever (including para) in Halifax during the past 10 years:-

1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
-	-	3	1	-	-	5	1	1	2

Smallpox.

No case of this disease occurred during the year.

Ophthalmia Neonatorum.

The following Table shows the number of cases notified, and where they were treated.

Notified	Treated	
	at Home	at Hospital
6	1	5

Cerebro-Spinal Fever.

Two cases of this disease were notified during the year.

Scabies.

The incidence of Scabies is very difficult to calculate. An up-to-date Scabies Unit was established at the Halifax General Hospital. The majority of cases received Benzyl Benzoate treatment. The results of this treatment were good. Also special disinfestation arrangements for Scabies - (clothing, bedding and houses) were established.

NOTIFICATIONS.

The following Table shows the number of Notifications of Infectious Disease received during the year:-

Disease	Number
Smallpox	-
Dysentery	4
Typhoid and Enteric Fever	-
Para-Typhoid	2
Scarlet Fever	411
Malaria	7
Diphtheria	127
Puerperal Pyrexia	20
Erysipelas	59
Ophthalmia Neonatorum	6
Encephalitis Lethargica	-
Acute Polio-Encephalitis	-
Acute Polio-Myelitis	2
Cerebro-Spinal Fever	2
Measles	342
Whooping Cough	211
Influenzal Pneumonia	39
Primary Pneumonia	197
Tuberculosis - Respiratory	101
" - Other Forms	22
Total	1552

N.B. Including Non-Civilians.

THE HALIFAX GENERAL HOSPITAL.

1.	Number of Maternity Cases delivered	1,446
2.	Number of Stillbirths	35
3.	Number of Deaths among the newly born (i.e. under 10 days of age)	33
4.	Total Number of Deaths among the children under One year of age (including No.3)	70
5.	Number of Maternal Deaths among women confined in Hospital	6
6.	Total Number of Deaths	636
7.	Total Number of Discharges (including infants born in Hospital)	7,139
8.	Duration of Stay of patients included in 6 and 7 above:-	
	Number of cases whose total stay was for the following periods:-	
	(a) Four weeks or less	6,764
	(b) Exceeding four weeks but under 13 weeks	836
	(c) Thirteen weeks or more	175
9.	Number of beds occupied:-	
	(a) Average during the year	406
	(b) Highest 475 on 29/3/1943	
	(c) Lowest 337 on 31/7/1943	
10.	Number of surgical operations under general anaesthetic (excluding dental operations)	
	General	1,402
	Spinal	127
	Local	328

Out-Patients. There is no regular Out-Patient or Casualty Departments but many cases (chiefly surgical) attend for re-examination after discharge.
Cases are also seen in consultation with reference to admission, and a considerable amount of Out-Patient work is done in the Massage and X-Ray Departments.

Total Number of Persons seen in the Out-Patient Department	4,709
Total Number of attendances	14,972

Ante-Natal Clinic :-	Number of Women seen	1,461
	Number of attendances	10,683

TUBERCULOSIS.

There has been no serious increase in the incidence of Tuberculosis during the war years. The figures of new cases of Pulmonary Tuberculosis for Halifax since 1939 are as follows:-

1939	1940	1941	1942	1943
105	120	110	98	106

The Health Committee in July 1943 decided to put the new Tuberculosis Allowances Scheme into operation. It is at present too early to comment upon the effect of the Scheme on the incidence of Tuberculosis. Miniature radiography has not yet come into force in this area.

I am indebted to Dr. Wilfred Smith, Tuberculosis Officer, for the following report:-

TUBERCULOSIS		
Period	Respiratory only	All Forms
10 years average 1933	.51	.55
1943	.62	.75

The following Table shows the number of notified cases of Tuberculosis remaining in the Borough on December 31st.

Total Cases	Pulmonary			Non-Pulmonary		
	Males	Females	Total	Males	Females	Total
569	265	212	477	50	42	92

Halifax Sanatorium. Admissions and Discharges during the year:-

	Halifax Cases	Other Cases	Total
Remaining in on December 31st, 1942	37	15	52
Admitted during the year	106	34	140
Discharged during the year	81	35	116
Died during the year	18	2	20
Remaining in on December 31st, 1943	44	12	56

The following Table shows the number of formal notifications received during the year classified for age, and localisation of the disease.

AGE PERIODS	FORMAL NOTIFICATIONS												
	Number of Primary Notifications of new cases of Tuberculosis												Total Notifications
	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	TOTAL (all ages)	
Pulmonary Males	-	2	2	1	4	2	7	15	11	8	3	55	61
" Females	-	1	7	1	5	8	12	4	3	-	1	42	45
Non-Pulmonary Males	-	-	1	-	-	1	-	1	1	-	-	4	4
" Females	-	-	8	1	1	1	2	1	-	-	-	14	14

In the following Tables, new cases coming to the knowledge of the Medical Officer of Health otherwise than by formal notification, together with the sources of such information are set out.

AGE PERIODS	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	Total
Pulmonary Males	-	-	-	-	1	-	-	2	2	5	-	10
" Females	-	-	-	-	-	-	2	-	-	-	-	2
Non-Pulmonary Males	-	2	-	-	-	-	-	-	-	-	-	2
" Females	1	1	-	-	-	-	-	-	-	-	-	2

SOURCE OF INFORMATION	Number of Cases	
	Pulmonary	Non-Pulmonary
Death Returns (from local Registrars	8	2
Death Returns (transferable deaths from Registrar General	4	2
Posthumous notifications	-	-
"Transfers" from other areas (other than transferable deaths) ...	-	-
Other Sources	-	-

VENEREAL DISEASES.

In conjunction with the County Authorities a joint clinic for the treatment of venereal diseases is held at the Royal Halifax Infirmary.

The clinic is open for women and children every Tuesday afternoon from 3-30 to 4-30, and from 6 to 8 p.m. For men every Thursday between 6 and 8 p.m. Also an auxiliary treatment for men is open daily from 10 a.m. to 12 noon, and 6 to 8 p.m. and on Sundays from 10 a.m. to 12 noon.

Dr. H.V. Phelon, M.R.C.P. (Lond) is in charge of this Clinic.

Co-ordination between this and the Maternity and Child Welfare has been secured by the attendance of one of the Health Visitors at the Tuesday afternoon and evening sessions.

The following figures refer to local patients attending Treatment Centres:-

Number of persons dealt with for the first time during the year, and found to be suffering from:-

	Local Clinic	Other Clinics
Syphilis	49	1
Soft Chancre	--	-
Gonorrhoea	56	1
Conditions other than venereal	119	2
Total	224	4
Total attendances at the out-patient clinic	5164	24
Aggregate number of in-patient days	314	--

Pathological Work.

Specimens examined at the Treatment Centre:-

Microscopical for Syphilis	12
Microscopical for Gonorrhoea	1050

Halifax New Cases (Excluding Service Cases)

Year	Syphilis	Gonorrhoea	Note
1935	35	79	Pre-War Period
1936	33	83	
1937	36	90	
1938	40	95	
1939	35	89	Part War Period
1940	45	96	War Period
1941	33	66	
1942	34	40	
1943	49	56	

Special Note.

I am glad to be able to report that the incidence of Venereal Disease in Halifax, despite war conditions, has been low. The increase relating to Halifax Cases in respect of Syphilis was only 15 cases and with regard to Gonorrhoea only 16 cases.

The Medical Officer of Health delivered eight public lectures dealing with the prevention and treatment of Venereal Diseases. These lectures were well attended and much interest was aroused. The early signs were explained and the necessity of early and complete treatment stressed.

MATERNITY and CHILD WELFARE.

I am indebted to Dr. R. Campbell, the Medical Officer i/c of Maternity and Child Welfare, for the following report:-

The work on the whole, shows steady progress in every department.

Midwives.

Number of Midwives practising in the Borough during the year (including Midwives working in Institutions)	31
Number of independent Midwives	6
Number holding the Central Midwives' Board Certificates	31
Number of cases in which Medical aid was summoned by the Midwives	55
Medical aid notices sent on behalf of child ...	12

Of these 6 Dangerous feebleness
2 Inflammation of eye
1 Skin eruption
2 Prematurity
1 Convulsions

Notifications received in accordance with C.M.B. Rules from Midwives.

Intention to resort to artificial feeding ...	30
Notification of death of infant	-
Liable to be a source of infection	-
Luddenden:- Number of cases in the Borough of Halifax	3

The work of the Kirby Leas Nurses.

Number of Bookings	386
" Confinements completed:-	
(a) as Midwife	327
(b) as Maternity Nurse	33
" cases sent to Hospital	5

Ante-Natal Clinics.

Number of Sessions	51
First Attendances	238
Repeat visits	740
Total number of attendances	978
Average attendance at each Session	19
Domiciliary visits	1,188

Post-Natal Clinics.

Domiciliary visits	227

Number of Maternal Deaths:-

After Admission to Hospital	-
On the District	-

Notification of Births Act 1907.

Number of births notified (including births transferred to other districts)	2,382
Number of births registered	2,460
Number of stillbirths	69
Number of notified births attended by Doctors with or without midwives	42
Number of notified births attended by midwives only	315
Number of births notified from the Royal Halifax Infirmary	498
Number of births notified from the General Hospital	1,453
Number of births notified from Nursing Homes	74
Number of births transferred to other districts	925

Infant Welfare Centres.

Northgate:-

Number of Sessions	140
New cases	719
Re-visits	7,175
Average attendance per Session	51.25
Percentage seen by doctor at each Session	45

Queen's Road:-

Number of Sessions	90
New cases	491
Re-visits	7,960
Average attendance per Session	93.9
Percentage seen by doctor at each Session	34

Ovenden:-

Number of Sessions	46
New cases	176
Re-visits	2,240
Average attendance per Session	52.56
Percentage seen by doctor at each Session	51

Ante-Natal Clinic:-

Number of Sessions	37
New cases	79
Repeat visits	128
Average attendance at each Session ...	5.5

The Diphtheria Immunisation Clinic.

This Clinic is held each Friday morning at 10 o'clock.

Number of new cases treated	748
Number of new cases immunised elsewhere	87
Number of Schick Tests	641

The work of the Health Visitors.

Visits to expectant mothers:-	
First visits	70
Repeat visits	243
Infants under one year:-	
First visits	1,424
Repeat visits	4,508
Children 1 to 2 years	2,620
Children 2 to 5 years	5,803
Ophthalmia Neonatorum	2
Puerperal Fever and Pyroxia	4
Miscellaneous	235

One Health Visitor has attended the Venereal Diseases Clinic each week throughout the year, and has paid 18 visits in connection with this work.

Infant Mortality.

Of the 78 deaths of infants under 1 year, 40 were boys and 38 were girls.

Of these 44 deaths occurred during the first month.

Of the 44 Neo-natal deaths, 29 died within one week, and of these 21 died within 24 hours.

Maternal Mortality	Sepsis	Others	Total
No. of deaths	1	2	3
Rate per 1,000 of live births	.6	1.3	1.9

The following Table serves to show the fluctuations in this rate during recent years:-

	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943
Sepsis ...	4	1	2	-	2	3	1	1	3	1
Other causes	8	7	7	3	2	3	10	1	2	2
Per 1,000 live births	10.5	8.8	7.5	2.3	3.0	4.4	8.8	1.5	3.4	1.9

It is encouraging to note the substantial decline in this rate.

Home Helps.

The scheme was discontinued as from September 9th, 1942.

Maternity Homes.

There are two registered Maternity Homes in Halifax, and these have been inspected.

Artificial Sunlight.

Number of Sessions	160
" " cases treated	221
" " attendances	4,157
" " " of non-tuberculous children of school age	1,079
" " " of non-tuberculous children under school age	3,023
" " " of tuberculous children	55
Average attendance per Session	23

MENTAL DEFICIENCY ACTS 1913 - 1938.

St. Catherine's Certified Institution.

The accommodation allotted to Halifax is as follows:-

Males, Hogh Grade (Adults)	21 Beds
Females, High Grade	23 "
Males, High Grade (under 16 years of age) ...	8 "
Females, Low Grade	4 "
Males, Low Grade	4 "
Total	60

The following Table shows the Institutional arrangements provided for the accommodation of local patients:-

Name of Institution	Sex of Cases Received	Ages	Accommodation for		Grade
			Males	Females	
Mid-Yorkshire Institution, Whixley, Near York.	Males	Over 16 years	21	-	High
St. Catherine's Near Doncaster.	Males	Over 16 years	21	-	High
		Do	4		Low
	Females	Under 16 years	8	-	High
		Do	-	4	Low
		Over 16 years	-	23	High
Gibbet Street Institution, Halifax.	Males & Females	Over 16 years	6	6	Active Medium to Low Grade

The following Table shows the position on December 31st:-

Cases "Subject to be dealt with":-	Males	Females	Total
1. Under "Order"			
In Institutions (excluding cases on licence)	55	46	101
On Licence from Institutions	4	1	5
2. In "Places of Safety"	-	-	-
Under Statutory Supervision	49	49	98

VACCINATION ORDER 1930

incorporating

The Vaccination Acts 1867-1898 and the Vaccination Act 1907.

The Borough has been divided into 7 Vaccination Districts, and the following Table shows the constitution of the districts together with the names and addresses of the Public Vaccinators.

	District.	Public Vaccinator.
No.1.	Copley Ward.	Dr. H.W. Morck, Orrell House, Sowerby Bridge.
No .2.	Central, Pellon, Southowram, East, South, Kingston, West and Skircoat Wards.	Dr. P. Milnes, Arden Lodge, Halifax.
No.3.	North and Akroyden Wards.	Dr. A. Garvie, Woodlands, Halifax.
No.4.	Illingworth and Ovenden Wards.	Dr. J. Morrison, Oak Leigh, Halifax.
No.5.	Northowram Ward.	Dr. A. Glenn, Innisfrae, Queensbury.
No.6.	Warley Ward.	Dr. C.S. Ogilvy, Wood Bank, Luddenden Foot.
No.7.	The Halifax General Hospital and Gibbet Street Institution.	Dr. R. Davidson, Woodgate, King Cross, Halifax.

Stated quite briefly, the Acts make it obligatory - unless a Statutory Declaration of conscientious objection is made - upon all parents to have their infants vaccinated before they attain the age of six months.

The following figures are extracted from the Return which was prepared for the Registrar General:-

Number of births returned in the "Birth List Sheets" as registered from 1st January to 31st December 1942:- 2,172

Number of these births duly entered by 31st January, 1944, in Columns 1,2,4 and 5, of the Vaccination Register, viz:-

Successfully vaccinated	366
Insusceptible of vaccination	2
Had Smallpox	-
Number in respect of whom declarations of Conscientious Objection have been received	1403
Died unvaccinated	116

Number of these births which on 31st January, 1944, remained unentered in the Vaccination Register on account of:-

Postponement by Medical Certificate	15
Removal to other Districts (Vaccination Officers' duly appraised)	159
Removal to places unknown, or which cannot be reached, or unfound.	29

Number of these births remaining on 31st January, 1944, neither duly entered in the Vaccination Register nor temporarily accounted for in the Report Book.	82
Total number of Certificates of successful Primary Vaccination of Children under 14 received during the Calendar Year 1943	436
Number of Statutory Declarations of Conscientious Objection, irrespective of the dates of birth of the children to which they relate, during the Calendar Year 1943.	1588
Number of children successfully vaccinated after declaration of Conscientious Objection had been made.	1
Number of Certificates of successful Primary Vaccination of children under 14 sent to other Vaccination Officers.	18

CHILDREN ACT, 1908. PART 1.

CHILDREN AND YOUNG PERSONS ACT, 1932. PART V.

The duties and powers under Part 1 of the Children Act, 1908, as amended by Part V of the Children and Young Persons Act, 1932, are administered by this Department.

It is the duty of the local authority to appoint Infant Protection Visitors to visit from time to time to satisfy themselves as to the proper nursing and maintenance of such infants, or to give necessary advice or directions thereon.

The following is a summary of the work carried out during the year:-

(a)	Number of foster parents on the Register at the end of the year	14
(b)	Number of children on the Register:-	
	(1) At the end of the year	15
	(2) Who died during the year	--
	(3) On whom inquests were held during the year	--
(c)	Number of Visitors at the end of the year who were:-	
	(1) Health Visitors	6
	(2) Female, other than Health Visitors	1
	(3) Male	-
(d)	Number of persons or societies authorised to visit under the proviso to Section 2 (2) of the Act of 1908	-
(e)	Number of cases (if any) in which proceedings were taken during the year	-
(f)	Number of cases in which the Local Authority has given a sanction during the year:-	
	(1) Under (a) of Section 3 of the Act of 1908	-
	(2) Under (b) of Section 3 of the Act of 1908	-
	(3) Under (c) of Section 3 of the Act of 1908	-
(g)	Number of Orders obtained during the year under Section 67 of the Act of 1932:-	
	(1) From a Court of Summary Jurisdiction	-
	(2) From a single Justice	-

My thanks are due to Mr. Butler, the local Inspector of the National Society for the Prevention of Cruelty to Children, for his courteous and valued co-operation during the past year.

BOARDING-OUT OF CHILDREN.

(under 5 years of age)

The Council's Administrative Scheme under the Local Government Act, 1929, made Maternity and Child Welfare a "declared" service; therefore the duties under the above Order in respect of children under 5 years of age were imposed upon the Department.

The following statement shows the position at the end of the year:-

	Males	Females
Number of Register January 1st 1943	1	-
Added during the year	-	-
Transferred to the care of the Education Committee on attaining the age of 5 years	-	-
Remaining on Register December 31st 1943	1	-

This child was visited, the home, bedding, and clothing were inspected at regular intervals, and enquiries were made to ensure that the rules as laid down in the Order were duly observed.

The health of the children at the Moorfield Convent, Preston, remained good throughout the year.

HEAD LICE AND NITS.

Number of children examined for lice and nits			36,976
Number found unclean -	Head	1,396	
	Body	185	1,581
Number treated at the Clinic			396

Methods used to rid heads of lice.

	Time taken for cure.
Sassafras Oil	24 hours
Lethane and Loricide	1 to 2 days

Nits are dealt with by persistent combing with a Binns Silver Nit Comb. Time taken about a week.

PUBLIC HEALTH EDUCATION.

I regret that owing to War Conditions and the many duties connected with Civil Defence Casualty Services it has not been possible to carry out the normal yearly programme of Public Health Lectures.

During the period under review Dr. Roe, Medical Officer of Health gave 18 evening lectures in connection with the Casualty Services, 8 lectures in respect of Venereal Diseases and 10 lectures relating to Public Health matters.

Despite transport and blackout difficulties these lectures were well attended.

I am indebted to Mr. J. Flanagan for the following report:-

Meat Inspection.

Since January 1940 the slaughtering of food animals has been under Ministry of Food control at the Abattoir.

The following Table shows the total Approximate weight of meat and offals destroyed on account of tuberculosis, and from other causes:-

	lbs.
Total amount of Meat destroyed	52,916
Total amount of Offals destroyed ...	42,113
Total Amount of Meat destroyed on account of Tuberculosis ...	44,429
Total Amount of Offals destroyed on account of Tuberculosis ...	26,478
Total Amount of Meat destroyed from other causes ...	8,487
Total Amount of Offals destroyed from other causes ...	15,635
Total Meat and Offals destroyed ...	95,029

Kinds of Food Destroyed.	Quantity in lbs
119 Carcases of Beef	48,647
Beef not in Carcase	2,482
9 Carcases of Veal	740
Veal not in Carcase	17
15 Carcases of Mutton and Lamb ...	435
Mutton not in Carcase	36
3 Carcases of Pork	342
Pork not in Carcase	217
Offals	42,113
Fish	3,424
Fruit and Vegetables	10,489
Fruit Preserves and Syrup	61
Canned Provisions	8,399
Dried Fruits	271
Cheese	280
Bacon and Ham	213
Sausages	27
Cakes	102
Fish Cakes	393
Cocoa	7
Meat Pies	528
Pressed Meat	8
Sweets	39
Cereals	191
Rabbits	360
Cooking Fats	32
Biscuits	8
Total Weight ...	119,961

Shell Fish.

Supplies of shell fish coming into the Borough again received attention in an endeavour to ensure that they had first been subjected to treatment in purification tanks before being offered for sale. Certain known suspect sources were excluded.

The following Table shows the number of visits paid to the slaughterhouses, butchers' shops, markets, etc:-

Description of Premises	Number of Visits
Public Slaughterhouse ...	640
Borough Market	279
Wholesale Market	284
Lairages	89
Potted Meat Houses ...	42
Tripe Boiling Houses ...	84
Butchers' Shops	465
Other Visits	373
Total ...	2,256

The following Table shows the number of animals slaughtered during the year and the number condemned:-

	Cattle	Calves	Sheep & Lambs	Pigs	Total
Number of Animals slaughtered at the Public Slaughterhouse.	5,012	1,724	24,290	425	31,451
Do. condemned.	119	9	16	3	147

General Summary of Meteorological Observations taken at the Central Public Library, Belle Vue, Halifax, from January 1st, 1943 to December 31st, 1943, by Frank Haigh, Chief Librarian.

Latitude of station - 53° 43′ N. Longitude - 1° 52′ W. Height above sea level - 625 feet.

1943	Pressure of atmosphere in month		Temperature of air in month					
MONTH	Mean at 32 F and at sea level	Range	Highest	Lowest	Range	Mean: Of all highest	Mean: Of all lowest	Daily range
	ins	ins	o	o	o	o	o	o
January	29.609	1.316	51.1	20.0	31.1	40.4	33.7	7.0
February	30.009	1.518	49.1	28.0	21.1	44.2	36.7	7.5
March	30.058	1.074	55.6	26.0	29.6	47.5	35.7	11.8
April	30.004	0.930	67.0	33.7	33.3	54.2	40.4	13.9
May	29.979	2.018	72.7	32.0	40.7	58.5	40.9	17.6
June	30.029	1.044	75.6	44.0	31.6	61.4	47.4	14.0
July	29.957	0.688	87.0	46.2	40.8	66.7	49.1	17.6
August	29.814	0.694	74.0	44.0	30.0	62.3	50.3	12.0
September	29.924	0.678	66.5	36.0	30.5	58.3	46.6	11.7
October	29.866	0.858	63.9	34.1	29.8	55.0	41.8	13.2
November	29.954	1.718	55.1	31.0	24.1	45.9	37.6	8.3
December	30.086	1.428	49.3	25.8	23.5	41.8	32.7	9.1
Annual means	29.941	1.164	63.9	33.4	30.5	53.0	41.1	12.0

1943	Mean Temperature		Vapour			Mean degree of humidity Saturation = 100	Mean weight of a cubic foot of air	Mean reading of thermometer	
MONTH	(Adopted) Air	Dew Points	Elastic Force	in a cubic foot of air: Mean	in a cubic foot of air: Short of Saturation			Maximum in rays of Sun	Minimum on Grass
	o	o	ins	grs	grs		grs	o	o
January	37.8	35.6	0.208	2.4	0.3	91	540.0	51.3	31.5
February	40.8	36.5	0.215	2.5	0.5	84	536.7	68.3	33.4
March	41.7	37.5	0.225	2.6	0.5	85	535.5	77.6	33.6
April	46.5	41.7	0.265	3.1	0.5	86	531.0	93.4	39.3
May	50.2	44.9	0.299	3.4	0.8	80	525.6	101.2	40.7
June	54.8	47.2	0.325	3.7	1.2	75	521.3	103.6	47.1
July	56.1	45.5	0.304	3.4	1.8	65	519.4	107.1	48.3
August	56.4	50.2	0.365	4.1	0.9	81	520.1	100.3	49.2
September	52.6	47.0	0.322	3.6	0.9	80	523.4	93.1	46.2
October	49.0	43.8	0.286	3.3	0.8	80	526.7	83.1	39.8
November	41.5	38.7	0.235	2.7	0.3	92	536.5	67.0	35.2
December	36.7	33.5	0.193	2.2	0.3	91	542.2	48.3	31.1
Annual Means	47.0	41.8	0.27	3.1	0.7	83	529.9	82.9	39.6

1943	Wind										Mean amount of cloud	Rain	
MONTH	Estimated strength	Relative proportion of										No. of days it fell	Amount collected
		N	NE	E	SE	S	SW	W	NW	Calms			ins
January	3.0	-	2	6	9	3	11	7	6	2	7.3	26	4.53
February	4.5	-	-	-	-	-	12	15	16	1	7.4	17	2.21
March	4.0	-	8	4	5	-	12	2	15	3	6.5	5	0.90
April	4.5	-	1	-	-	1	15	3	19	4	7.0	15	1.93
May	4.0	-	7	-	12	-	9	2	15	3	5.5	13	2.79
June	4.5	-	5	-	5	-	18	3	8	2	6.1	15	2.49
July	3.5	-	13	1	4	-	13	9	5	4	6.4	10	2.02
August	3.5	-	2	-	5	2	11	15	6	2	6.9	27	3.08
September	4.0	2	1	5	6	-	14	8	9	-	6.4	16	3.52
October	3.5	1	-	1	14	3	18	3	3	4	5.5	14	2.12
November	3.5	2	5	2	2	-	8	4	22	3	5.6	17	2.77
December	3.0	2	3	3	8	2	4	7	8	7	7.0	17	1.50
Annual Means	3.8	1	4	2	6	1	12	6	11	3	6.9		

The mean monthly readings of the earth Thermometer, four feet below the surface, were as follows:- January, 43° February, 43° March, 43° April, 46° May, 49° June, 53° July, 53° August, 56° September, 55° October, 52° November, 49° December, 44°

Highest readings - 57° on August 2nd to August 12th.
Lowest readings - 42° on January 12th to 23rd.

Rain fell on 192 days, and measured 29.86 inches.

The observations have been reduced to mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the seventh edition of Hygrometrical Tables, after corrections for index errors of the instruments employed.

WATER SUPPLY.

I am indebted to the Waterworks Engineer Mr. H.F. Lea, for the following report:-

In the period covered by this report the position of Waterworks Engineer and Manager was vacated by Mr. J. Noel Wood., M.Inst.C.E. on November 30th 1943, upon his taking up the more responsible post of General Manager and Engineer of the Sheffield Water Undertaking.

Unremitting care has been given to the maintenance of the supply of water of high quality throughout the year. Routine analyses by the Department, supplemented by the independent examination of samples by the Public Analyst, Mr. R. Mallinder, B. Sc., F.I.C. have shown that in no case has the water been of a lower standard than Class 1 of the Ministry of Health Classification for Water Supplies. Copies of the analyses made by the Public Analyst, are forwarded to the Medical Officer of Health.

Owing to war-time conditions no new work of importance has been carried out. The policy of reconditioning old water mains has been continued and during the year about 4½ miles of 3" and 4" mains have been thoroughly scraped and recoated with bitumen.

CLEANSING.

I am indebted to Mr. A.J. Burrell, Director of Public Cleansing for the following notes:-

The quantity of refuse collected during the year was 20,610 tons, and a fortnightly collection of refuse has been maintained throughout the year.

Priority has been given to salvage work which has been and still is a vital necessity for the national effort.

The income from the sale of salvage during the year has been nearly £14,000 which has considerably lessened the usual heavy cost in the collection and disposal of refuse.

RIVERS AND STREAMS.

I am indebted to Mr. D.T. Lloyd Jones, the Borough Engineer, for the following observations:-

Apart from the districts of Northowram where the sewerage falls to Brighouse, part of Warley which drains to Luddenden and certain smaller areas which drain into the sewers of the Sowerby and Southowram authorities, the whole of the sewerage of the Borough gravitates to the Sewerage Works at Salterhebble, where the effluent is treated. No known pollution takes place.
Surface water in isolated cases is taken direct to water courses.

Storm water overflows to main sewers are regulated to the requirements of the Ministry of Health and periodically inspected and cleansed.

SEWERAGE.

Building development and conversion of closets in various districts normally call for extensions of branch sewers and replacements of sewers of obsolete construction.

It is anticipated that the Sewerage Disposal Works will be adequate to deal with the whole of the effluent of the Borough for some time to come, but in the light of recent research, the most modern methods in the various stages of treatment are being adopted. Further, Humus Tanks have been constructed at the Copley Works, and a secondary sludge treatment plant on the Porteous system installed at North Dean, which is yielding very satisfactory results.

The scheme of relief sewers and reconstruction of worn-out sewers in the central area has now been completed. A similar scheme was in course of preparation for dealing with the sewerage draining to the Ovenden Brook trunk sewer and the remainder of the main sewerage system. This is suspended for the War period, and it is anticipated will be one of the first schemes to claim attention in the days of reconstruction.

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